

CLAIMS

Amend the claims as follows.

1. (Previously Presented) A base station, comprising:
a wireless part including a wireless transmitter and wireless receiver;
a transmitter/receiver part including a receiver circuit for processing a wireless reception signal received by the wireless receiver and a transmitter circuit for processing a wireless transmission signal transmitted by the wireless transmitter; and
a control part selectively connecting the wireless transmitter to the transmitter circuit and selectively connecting the wireless receiver to the receiver circuit according to a switched stand-by mode and communication mode,
the control part further including a tone generator configured to generate and output an activation tone on the wireless transmission signal when the control part is switched from the stand-by mode to the communication mode, the activation tone automatically causing a handset receiving the transmission signal to switch from a reception mode where a handset receiver circuit is coupled to a handset wireless reception part and a handset transmitter is disconnected from a powered off wireless transmission part to a reception and transmission mode where the handset receiver circuit is coupled to the handset wireless reception part and the handset transmitter is connected to a powered on wireless transmission part.

2. (Previously Presented) The base station according to claim 1 wherein the control part outputs a first activation tone on the transmission signal for a predetermined time and at a first frequency after switching to the communication mode causing the handset to switch to the reception and transmission mode,
the control part outputting a second tone on the transmission signal for a predetermined time at a second frequency different from the first frequency after switching back to the stand-by mode causing deactivation of the handset transmission mode.

3. (Previously Presented) The base station according to claim 1 wherein the control part includes a push-to-talk switch that upon being pressed automatically activates the tone generator and automatically activates a power source in the wireless transmitter.

4. (Currently Amended) A ~~communication~~ handset device, comprising:
transmitter circuitry for transmitting a wireless transmission signal;
receiver circuitry for receiving a wireless reception signal from a wirelessly transmitting base unit; and

control circuitry selectively switching the transmitter and receiver circuitry between a stand-by mode where only the receiver circuitry is operational to receive and demodulate the wireless reception signal from the base unit into audio signals and a communication mode where both the receiver circuitry and the transmitter circuitry are operational to receive and demodulate the wireless reception signal into audio signals and modulate and transmit audio signals as the wireless transmission signal, respectively, the control circuitry including a tone detector ~~that automatically configured to monitor the wireless reception signal for a first activation frequency tone received from the transmitting base unit for remotely switching the control circuitry from the stand-by mode to the communication mode. the tone detector responsive to detecting the first activation frequency tone causing~~ causes the control circuitry to switch from the stand-by mode to the communication mode ~~when an activation tone is detected in the reception signal.~~

5. (Currently Amended) The ~~communication~~ handset device according to claim 4 wherein the tone detector is further configured to monitor the reception signal for a second deactivation frequency tone received from the transmitting base unit for switching the control circuitry from the communication mode back to the stand-by mode, wherein the tone detector responsive to detecting the second deactivation frequency tone from the transmitting base unit causes the control circuitry to switch from ~~automatically switches~~ to the communication mode when a first activation frequency tone is detected in the reception signal and automatically switches back to the stand-by mode when a second deactivation frequency tone is detected in the reception signal.

6. (Currently Amended) The ~~communication~~ handset device according to claim 4 including a voice detector automatically causing the control circuitry to switch from the stand-by mode to the communication mode when a voice signal is received by the transmitter circuitry and automatically causing the control circuitry to switch back to the stand-by mode when no voice signal is received by the transmitter circuitry for a predetermined amount of time.

7. (Currently Amended) The ~~communication~~ handset device according to claim 4 including ~~a transducer coupled between the transmitter circuitry and the receiver circuitry configured to operate as both a microphone and a speaker~~

a transmitter section;

a receiver section; and

a switch controller coupled to the tone detector, wherein the tone detector is configured to cause the switch controller to power on the transmitter circuitry and connect the transmitter circuitry to the transmitter section when operating in the communication mode and power off the transmitter circuitry and disconnect the transmitter circuitry from the transmitter section when operating in the stand-by mode.

8. (Currently Amended) The ~~communication~~ handset device according to claim 7 including a first noise filter coupled between the transducer and the transmitter circuitry and a second noise filter coupled between the transducer and the receiver circuitry.

9. (Currently Amended) The ~~communication~~ handset device according to claim 4 including a photo-switch coupled between the control circuitry and a power source activation signal in the transmitter circuitry.

10. (Currently Amended) The ~~communication~~ handset device according to claim 4 including an antenna switching circuit automatically connecting an antenna to the receiver circuitry during the stand-by mode and automatically connecting the antenna to the transmitter circuitry during the communication mode.

11. (Previously Presented) A half-duplex wireless communication device, comprising:

a wireless section including a wireless receiver for receiving a wireless reception signal and a wireless transmitter for transmitting a wireless transmission signal;

a transmitter/receiver section that includes a receiver section for outputting the reception signals as an audio output signal and a transmitter section for converting an audio input signal into the transmission signal supplied to the wireless transmitter; and

a control section switching between a stand-by mode where the wireless receiver is coupled to the receiver section and the wireless transmitter is powered off and disconnected from the transmitter section and a communication mode where the wireless receiver is coupled to the receiver section and the wireless transmitter is powered on and coupled to the transmitter section,

the control section including a transmission/reception switch controller and a voice detector coupled between the transmission/reception switch controller and the transmitter section together configured to automatically switching from the stand-by mode to the communication mode when a voice signal is detected in the transmission signal.

12. (Original) The communication device according to claim 11 wherein the control section automatically switches back to the stand-by mode when no voice signal is detected in the transmission signal for a predetermined period of time.

13. (Original) The communication device according to claim 11 wherein the control section automatically switches from the stand-by mode to the communication mode when a first predetermined frequency tone is detected in the reception signal.

14. (Original) The communication device according to claim 13 wherein the control section automatically switches from the communication mode back to the stand-by mode when a second predetermined frequency tone is detected in the reception signal.

15. (Original) The communication device according to claim 11 wherein the transmitter section and the receiver section comprise a single transducer configured into an ear piece for inserting into an external ear canal of an operator, a first amplifier coupled between the

wireless receiver and a first the transducer and a second amplifier coupled between the wireless transmitter and the transducer.

16. (Original) The communication device according to claim 11 wherein the control section includes a first switch coupled between the wireless receiver and the receiver section, a second switch coupled between the wireless transmitter and the transmitter section, and a transmission/reception switch controller that shuts the first switch and opens the second switch during the stand-by mode and shuts both the first and second switch during the communication mode.